



PATENT APPLICATION

11641/39

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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In re the Application of: R. CASAGRANDE, et al.
Application No.: 10/084,063
Filed: February 28, 2002
Group Art Unit: 1743
Examiner: Unassigned
For: MAGNETIC IMMOBILIZATION OF CELLS

INFORMATION DISCLOSURE STATEMENT

Director of the U.S. Patent and Trademark Office
Washington, D.C. 20231

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Sir:

Pursuant to 37 CFR § 1.56, the attention of the Patent and Trademark Office is hereby directed to the reference(s) listed on the attached PTO-1449. Unless otherwise indicated herein, one copy of each reference is attached. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the reference(s) be made of record therein and appear among the "References Cited" on any patent to issue therefrom. The filing of this Information Disclosure Statement and the enclosed PTO Form No. 1449, shall not be construed as an admission that the information cited is prior art, or is considered to be material to patentability as defined in 37 C.F.R. § 1.56(b). The paragraphs marked below are applicable.

☒ 1. This Information Disclosure Statement is being filed (a) within three months of the U.S. filing date or the date of filing a CPA, OR (b) before the mailing date of a first Office Action on the merits in the present application. No certification or fee is required.

☐ 2. This Information Disclosure Statement is being filed with a Request for Continued Examination (RCE). No certification or fee is required.

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U.S. Application Serial No. 10/084,063

☐ 3. This Information Disclosure Statement is being filed more than three months after the U.S. filing date AND after the mailing date of the first Office Action on the merits, but before the mailing date of a Final Rejection or Notice of Allowance.

☐ a. I hereby certify that each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement. 37 CFR §1.97(e)(1).

☐ b. I hereby certify that no item of information in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to my knowledge after making reasonable inquiry, was known to any individual designated in 37 CFR §1.56(c) more than three months prior to the filing of this Information Disclosure Statement. 37 CFR §1.97(e)(2).

☐ c. Please debit Deposit Account No. 11-0600 in the amount of \$240.00 in payment of the fee under 37 CFR §1.17(p) to ensure consideration of the disclosed information. Two duplicate copies of this paper are attached.

☐ 4. This Information Disclosure Statement is being filed more than three months after the U.S. filing date and after the mailing date of a Final Rejection or Notice of Allowance, but before payment of the Issue Fee. Applicant(s) hereby petition(s) that the Information Disclosure Statement be considered. Please debit Deposit Account No. 11-0600 in the amount of \$130.00 in payment of the petition fee under 37 CFR §1.17(i)(1) to ensure consideration of the disclosed information. Two duplicate copies of this paper are attached.

☐ a. I hereby certify that each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement. 37 CFR §1.97(e)(1).

☐ b. I hereby certify that no item of information in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to my knowledge after making reasonable inquiry, was known to any individual designated in 37 CFR §1.56(c) more than three months prior to the filing of this Information Disclosure Statement. 37 CFR §1.97(e)(2).

OPTIONAL INSERT PARAGRAPHS FOR INFORMATION DISCLOSURE
STATEMENT (Please delete non-applicable paragraphs).

☐ 5. Relevance of the non-English language reference(s) is discussed in the present specification.

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- ☐ 6. The reference(s) was/were cited in a counterpart foreign application. An English language version of the foreign search report is attached for the Examiner's information.
- ☐ 7. A concise explanation of the relevance of the non-English language reference(s) appears in the Appendix attached hereto.
- ☐ 8. The Examiner's attention is directed to co-pending U.S. Patent Application No. _____, filed, which is directed to related technical subject matter. The identification of this U.S. Patent Application is not to be construed as a waiver of secrecy as to that application now or upon issuance of the present application as a patent. The Examiner is respectfully requested to consider the cited application and the art cited therein during examination of the present application.
- ☐ 9. This application is one of a series of related applications, identified in the attached Appendix, which are directed to related technical subject matter. The identification of those U.S. Patent Applications is not to be construed as a waiver of secrecy as to those applications now or upon issuance of the present application as a patent. The Examiner is respectfully requested to consider the cited applications and the art cited therein during the examination.
- ☐ 10. The reference(s) was/were cited by or submitted to the Office in parent application No. _____, filed _____, which is relied upon for an earlier filing date under 35 U.S.C. §120. Thus, copies of these references are not attached. 37 CFR §1.98(d).
- ☐ 11. English-language Abstracts of the non-English language references are attached hereto.
- ☐ 12. Other.

Respectfully submitted,

KENYON & KENYON



Thomas A. Haag, Ph.D.
Registration No. 47,621

Date: Dec. 20, 2002



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	APPLICANTS R. CASAGRANDE et al.	
	FILING DATE February 28, 2002	GROUP 1743

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U. S. PATENT DOCUMENTS

EXAMINER INITIAL	PATENT/PUBLICATION NUMBER	PATENT DATE	NAME	CLASS	SUBCLASS	FILING DATE
	4,230,685	10/28/80	Senyei et al.			
	4,508,625	04/02/85	Graham			
	4,582,622	04/15/86	Ikeda et al.			
	4,591,570	05/27/86	Chang			
	4,672,040	06/09/87	Josephson			
	4,777,145	10/11/88	Luotola et al.			
	4,910,148	03/20/90	Sorensen et al.			
	4,988,618	01/29/91	Li et al.			
	4,992,377	02/12/91	Saxholm			
	5,186,827	02/16/93	Liberti et al.			
	5,200,084	04/06/93	Liberti et al.			
	5,202,227	04/13/93	Matsuda et al.			
	5,278,063	01/11/94	Hubbell et al.			
	5,330,911	07/19/94	Hubbell et al.			
	5,395,498	03/07/95	Gombinsky et al.			
	5,427,663	06/27/95	Austin et al.			
	5,466,574	11/14/95	Liberti et al.			
	5,476,796	12/19/95	Takahashi et al.			
	5,486,457	01/23/96	Butler et al.			
	5,498,392	03/12/96	Wilding et al.			
	5,498,550	03/12/96	Fujiwara et al.			
	5,508,164	04/16/96	Kausch et al.			
	5,514,340	05/07/96	Landsdorp et al.			

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EXAMINER INITIAL	PATENT/PUBLICATION NUMBER	PATENT DATE	NAME	CLASS	SUBCLASS	FILING DATE
	5,567,326	10/22/96	Ekenberg et al.			
	5,573,942	11/12/96	Miyamoto			
	5,591,627	01/07/97	Miyamoto			
	5,593,838	01/14/97	Zanzucchi et al.			
	5,602,042	02/11/97	Farber			
	5,646,001	07/08/97	Terstappen et al.			
	5,660,990	08/26/97	Rao et al.			
	5,665,582	09/09/97	Kausch et al.			
	5,681,484	10/28/97	Zanzucchi et al.			
	5,759,793	06/02/98	Schwartz et al.			
	5,763,203	06/09/98	Ugelstad et al.			
	5,755,942	05/26/98	Zanzucchi et al.			
	5,795,470	08/18/98	Wang et al.			
	5,812,419	09/22/98	Chupp et al.			
	5,858,804	01/12/99	Zanzucchi et al.			
	5,876,593	03/02/99	Liberti et al.			
	5,912,177	06/15/99	Turner et al.			
	5,922,284	07/13/99	Kinoshita et al.			
	5,928,880	07/27/99	Wilding et al.			
	5,968,820	10/19/99	Zborowski et al.			
	5,972,721	10/26/99	Bruno et al.			
	5,989,835	11/23/99	Dunlay et al.			
	5,993,665	11/30/99	Terstappen et al.			
	5,993,740	11/30/99	Niiyama et al.			

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EXAMINER INITIAL	PATENT/PUBLICATION NUMBER	PATENT DATE	NAME	CLASS	SUBCLASS	FILING DATE*
	5,998,224	12/07/99	Rohr et al.			
	5,998,160	12/07/99	Berens			
	6,008,010	12/28/99	Greenberger et al.			
	6,013,188	01/11/00	Terstappen et al.			
	6,013,532	01/11/00	Liberti et al.			
	6,027,945	02/22/00	Smith et al.			
	6,039,897	03/21/00	Lochhead et al.			
	6,110,380	08/29/00	Barbera-Guillem			
	6,126,835	10/03/00	Barbera-Guillem et al.			
	6,133,043	10/17/00	Talley et al.			
	6,136,182	10/24/00	Dolan et al.			
	6,140,045	10/31/00	Wohlstadter et al.			
	6,143,247	11/07/00	Sheppard, Jr. et al.			
	6,180,239 B1	01/30/01	Whitesides et al.			
	6,180,418 B1	01/30/01	Lee			
	6,184,043 B1	02/06/01	Fodstad et al.			
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	6,221,663 B1	04/24/01	Bhatia et al.			
	6,235,541 B1	05/22/01	Brizzolara			
	6,258,607 B1	07/10/01	Saito et al.			
	2002/0012953 A1	01/31/02	Jauho et al.			
	2002/0022276 A1	02/21/02	Zhou et al.			

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FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
	WO 92/08133	05/14/92	US				
	WO 94/11078	05/26/94	US				
	WO 97/28490	08/07/97	US				
	WO 99/42832	08/26/99	FI				
	WO 00/43783	07/27/00	US				
	WO 00/54882	09/21/00	US				
	WO 00/60356	10/12/00	US				
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	63-116175	05/20/88	JP				X
	0 390 634 B1	05/17/95	EP				

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EXAMINER INITIAL	AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.
	Castelino J., "Magnetic Activated Cell Sorting using Microfabricated Arrays", Biomedical Physics (1999), Session Z13.001 (abstract)
	Delamarche E. <i>et al.</i> , "Microfluidic Networks for Chemical Patterning of Substrates: Design and Application to Bioassays", J. Am. Chem. Soc. (1998) 120:500-508
	Delamarche E. <i>et al.</i> , "Patterned Delivery of Immunoglobulins to Surfaces Using Microfluidic Networks", Science (1997) 276:779-781
	Fishman D. <i>et al.</i> , "Biological Assays in Microfabricated Structures", SPIE (1999) 3603:192-197
	Folch A. <i>et al.</i> , "Microengineering of Cellular Interactions", Annu. Rev. Biomed. Eng. (2000) 2:227-256
	Love J.C. <i>et al.</i> , "Fabrication of Three-Dimensional Microfluidic Systems by Soft Lithography", MRS BULLETIN (2001) 523-528
	Quake S.R. <i>et al.</i> , "From Micro- to Nanofabrication with Soft Materials", Science (2000) 290:1536-1540

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EXAMINER INITIAL	AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.
	Šafařík I. et al., "Use of magnetic techniques for the isolation of cells", Journal of Chromatography B. (1999) 722:33-53

EXAMINER	DATE CONSIDERED
EXAMINER: Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

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